

200100205

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE; PRESENTS; SHAME COME:

Spngenta Seeds, Inc.

ILICIONS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PUBLIC A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY FECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'S30-Y8'

In Testimony Museur. I have hereunto set my hand and caused the seal of the Plant Butiety Protection Office to be affixed at the City of Washington, D.C. this third day of December, in the year two thousand one.

Altost:

Balm. Zakmel

Commissioner Plant Variety Protection Office Aaricultural Marketina Service Syricultard man

REPRODUCE LOCKLLY. Includ	le form number and date or	all reproduction	ons			Form Approved - OMB No. 0581
U.S. DEP/ AGRICUL SCIENCE AND TECHNOLO	I OCCION	The tolowing the Paperwork	state nents are made in accord. k Reduction Act (PRA) of 1995.	unce with the l	Privacy Act of 1974 (5 U.S.C. 557a) an	
APPLICATION FOR PLANT (Instructions and information	CERTIFICATI	A company to the second control of the control of t				
Syngenta Seeds		2. TEMPORARY DESIGN EXPERIMENTAL NAM J557707, X		€	J. VARIETY NAME S30-Y8	
4 ADDRESS (Street and No. or R.F.D. N		ntry)	5. TELEPHONE (Include area code 763-593-7333			FORGEFICIALICSEONLY
P.O. Box 959 Minneapolis MN	, 55440			6. FAX (include area code) 20 (763-593-7801		PVPO NUMBER 1 () () 2 () 5
7 IF THE OWNER NAMEO IS NOT A PER ORGANIZATION (COrporation, partnershi		8. IF INCORPOR STATE OF INC	ORPORATION	9. DATE OF INCORPORA	ГЮИ	May 3, 200
John C. Thorne Syngenta Seeds P.O Box 949 Washington, IA	, Inc.	IS APPLICATION. (Fix	st person isted wil n	ecoive all papers)		FILING AND EXAMINATION FEES: S 2,705 R DATE 5/3/2001 C CERTIFICATION FEE: S 320 DATE 9/4/01
11 TELEPHONE (Include area code) 319-652-2181	12. FAX (Include area code) 319-653-4609	13. E.A.		e@syngenta.o	İ	Soybeans
15 GENUS AND SPECIES NAME OF CROP Glycine max 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions of reverse) a. FI Exhibit A Origin and Breeding History of the Variety			Leguminosae 19. DOES THE OWNER SPECIFY THAT SEED OF THIS VAR CERTIFIED SEED? See Section 83(a) of the Plant Va			TYES TO NO
repository)	of Variety of the Variety (Optional) s of the Owner's Ownership streamed seeds or, for tuber propagates be deposited and maintained in an all (50), made psymble to "Treasurer of the	pproved public	OF GENERAL TEST TO I	TIONS?	PRODUCTIO	NETY BE LIMITED AS TO NUMBER
22. HAS THE VARIETY (INCLUDING ANY HAR FROM THIS VARIETY BEEN SOLD, DISPO OTHER COUNTRIES? [] YES # YES, YOU MUST PROVIDE THE DATE FOR EACH COUNTRY AND THE CRICUM	tvested material) or a hybrid ised of, transferred, or used (ST-413/0) Per a M NO permissi of first sale disposition, tra	PPLICANTS PPLICANTS ON) WSFER OR USE	PROPERTY R	TY OR ANY COMPONENT OF IGHT (PLANT BREEDER'S RIC ES EE GIVE COUNTRY, DATE OF NUMBER, (Please use space in	SHT OR PATE () FILING OR IS	(et: 4/13/01 Perapplica (NO permission Isuance and assistmed
24. The owners declare that a visible sample of if for a luber propagated variety a lessue cutture. The undersigned owner(s) is(are) the owner and is entitled to protection under the provision owner(s) is(are) informed that (alse representations).	e will be deposited in a public reposite of this sexually reproduced or tuber p ons of Section 42 of the Plant Variety	ory and maintained for ropegated plant variet Protection Act,	r the duration of the o ly, and ballove(s) that	certificate,		
SIGNATURE OF OWNERS OF THE	~		SIGNATURE OF O	WNER	- · · · ·	
John C. Thorne	,		NAME (Please print	(or type)		
John C. Thorne covaction time Director of Soybe	ean Breeding U-	-16-01	CAPACITY OR TITE		<u> </u>	DATE
T-470 (6-98) designed by the Plant Variety Protection		epiaces STO-470 (03-	96) which is obsolete	. (See reverse for instri	ctions and in	formation collection burden statement,

EXHIBIT A

Origin and Breeding History of S30-Y8

In the summer of 1993 the Syngenta (formerly Novartis Seeds, Inc. or Northrup King Co.) breeding group at St. Joseph, IL made the cross '9362' x 'S35-35' from which the variety S30-Y8 was derived. Cultivar 9362 is a commercial cultivar marketed by Pioneer Hi-Bred International, Inc. S35-35 is a cultivar marketed by Syngenta Seeds.

The F1 and F2 generations were grown at the Syngenta Seeds, Inc., Research Center near Kekaha, Kauai, HI, in the winter of 1993-94. The F3 generation was grown at St. Joseph in the summer of 1994; the F4 and F5 in Kekaha in the winter of 1994-95, and the F6 at St. Joseph in the summer of 1995. The F2 through F5 generations were advanced using a modified system of single seed descent. Single F6 plants were harvested in the fall of 1995 and threshed individually. The progeny from these plants were yield tested in a preliminary yield trial in the summer of 1996. One of these, designated J557707, was chosen for advancement. J557707 was tested in extensive replicated trials in the central United States from 1997 through 2000 and found to perform well compared to other early Maturity Group 3 varieties. It was tested in the greenhouse at the Syngenta Seeds, Inc. Research Center at Bay, AR, for resistance to Phytophthora sojae and found to have the Rps1-c gene for resistance. It was also tested in the greenhouse at Bay for resistance to Races 3 and 14 of Soybean Cyst Nematode (Heterodera glycines) and found to be resistant to Race 3 and moderately resistant to Race 14. J557707 was also found to have purple flowers, gray pubescence, brown pod walls, and seed with yellow seed coats and imperfect black hila (may contain up to 2% other hilum color). In 2000 it was tested under the experimental designation X030, and based on its yield performance and pest resistance, it was released as S30-Y8.

During the winter of 1998-99, approximately 2 pounds of seed of S30-Y8 was rogued for hilum color and planted in Kekaha. This increase was rogued for flower, pubescence, and pod color, and bulk harvested. This seed was planted near the Syngenta Research Center at Washington, IA in the summer of 1999. The increase was rogued carefully at flowering and maturity, and any off-type plants removed. It was then harvested to produce Breeder seed.

Foundation seed of S30-Y8 was produced by Syngenta Seeds, Inc. in the summer of 2000 and found to meet Syngenta Seeds, Inc. standards for Foundation Seed.

S30-Y8 is uniform and stable within a purity level of 99% (98% for hilum color). During the four years of testing and three years of seed increase, we have observed no variants. Any off-type plants removed from increase fields were assumed to have arisen from admixture or out-crossing. Varietal purity will be maintained using progeny rows as needed for the life of the variety.

EXHIBIT BStatement of Distinctness for the Variety S30-Y8

Soybean variety S30-Y8 is most like the variety Asgrow 'A3244'. It can be differentiated from A3244 on the basis of resistance to Race 3 of Soybean Cyst Nematode. S30-Y8 is resistant; A3244 is susceptible. S30-Y8 is also similar to Asgrow 'A3134'. It can be differentiated from A3134 on the basis of resistance to Race 3 of *Phytophthora megasperma*. S30-Y8 is resistant; A3134 is susceptible. S30-Y8 can be differentiated from the parental variety, 9362 on the basis of flower color. S30-Y8 has purple flowers; 9362 has white flowers. It can be differentiated from the other parent, S35-35 on the basis of pubescence and hilum color. S30-Y8 has gray pubescence and imperfect black hila; S35-35 has tawny pubescence and black hila.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

EXHIBIT C

OBJECTIVE DESCRIPTION OF VARIETY

SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Syngenta Seeds, Inc.	J557707, X030	S30-Y8
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Cod	(e)	FOR OFFICIAL USE ONLY
P.O Box 959 Minneapolis, MN 55440		PVP2 20 MBER () () 2 () 5 M
Choose the appropriate response which characterizes the var in your answer is fewer than the number of boxes provided,		
1. SEED SHAPE:		
2 1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	 2 = Spherical Flattened	(L/W ratio > 1.2; L/T ratio = < 1.2) L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)		
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	(Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		
1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebso	oy'; 'Gasoy 17')	Intermediate
4. SEED SIZE: (Mature Seed)		
1 4 Grams per 100 seeds		
5. HILUM COLOR: (Mature Seed)		
5 1 = Buff 2 = Yellow 3 = Brown May contain up to 2% other hi	4 = Gray 5 = Imperfect Bla	ck 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)		
1 = Yellow 2 = Green		
7. SEED PROTEIN PEROXIDASE ACTIVITY:		
2 1 = Low 2 = High		·
8. SEED PROTEIN ELECTROPHORETIC BAND:		
1 = Type A (SP1 ^a) 2 = Type B (SP1 ^b)		
9. HYPOCOTYL COLOR:		
1 = Green only ('Evans'; 'Davis') 2 = Green with 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson';	h bronze band below cotyledons (' 'Coker Hampton 266A')	Woodworth'; 'Tracy')
10. LEAFLET SHAPE:		
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)	

FORM LMGS-470-57 (2-82)

11. LEAFLET SIZE: 1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	20 () 1 () 2 () 5 () 2 () 5 () () 2 () 5 () () () () () () () () () () () () ()
12. LEAF COLOR: 1 = Light Green ('Weber'; 'York')	2 = Medium Green ('Corsoy 79'; 'Braxton')
2 3 = Dark Green ('Gnome'; 'Tracy')	
13. FLOWER COLOR:	
2 1 = White 2 = Purple	3 = White with purple throat
14, POD COLOR:	
2 1 = Tan 2 = Brown	3 = Black
15. PLANT PUBESCENCE COLOR:	
1 = Gray 2 = Brown (Tawny)	
16. PLANT TYPES:	
	On the second (Decree)
1 = Slender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Intermediate ('Amcor'; 'Braxton')
17. PLANT HABIT:	
1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved Pe	
18. MATURITY GROUP:	
6 1 = 000 2 = 00 3 = 0 9 = V1 10 = VII 11 = VII	
19. DISEASE REACTION: (Enter 0 = Not Tested; 1 =	Susceptible: 2 = Resistant)
BACTERIAL DISEASES:	
Bacterial Pustule (Xanthomonas phaseoli vi	ar, sojensis)
Bacterial Blight (Pseudomonas glycinea)	
Wildfire (Pseudomonas tabaci)	
FUNGAL DISEASES:	
Brown Spot (Septoria glycines)	
Frogeye Leaf Spot (Cercospora sojina)	
0 Race 1 0 Race 2 0 Ra	ace 3 O Race 4 O Race 5 Other (Specify)
Target Spot (Corynespora cassiicola)	
Downy Mildew (Peronospora trifoliorum ve	sr. manshurica)
O Powdery Mildew (Microsphaera diffusa)	
Brown Stem Rot (Cephalosporium gregatur	n) ·
O Stem Canker (Diaporthe phaseolorum var. o	:aulivora)

23.	GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIET	V. 0-:
	THE THE THE THE	Y: Paired Comparison Data

					_				-
VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE	NO.
				CM Width	CM Length	% Protein	% Oii	G/100 SEEDS	SEEDS/ POD
Submitted	127	2.7	79	8	10	40.0	21.8	14.0	
A3244 Name of Similar Variety	129	3.0	85	7	12	41.8	19.7	13.2	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A₂ in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	1 I I I I I UUUWING SIACEMENTS AM ma	FORM APPROVED - OMB NO. 0581-00 fe in accordance with the Privacy Act
THE STATE WALKETING SCHAFE	To store baza, and the rap	e work Reduction Act (PRA) of 1995.
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to certificate is to be issued (7 U.S.C. until certificate is issued (7 U.S.C.	n determine if a plant variety protecti 2. 2421). Information is held confident 2426).
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME
	OR EXPERIMENTAL NUMBER	•
Syngenta Seeds, Inc.	J557707, X030	S30-Y8
		·
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)
P.O Box 959	763-593-7333	763-593-7801
Milleapolis, MN 55440	7. PVPO NUMBER	
	20	00205
Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, please explain.	X YES NO
Is the applicant findividual		
 Is the applicant (individual or company) a U.S. national or U.S. based/compar if no, give name of country 	ny?	X YES NO
		، با
. Is the applicant the original owner? X YES NO If no, please a	nswer the fallowing:	
a. If original rights to variety were owned by individual(s), is (are)	the original owner(s) a U.S. national	al(s)?
YES NO If no, give name of country		
b. If original rights to variety were owned by a company, is the or	iginal owner(s) a U.S. based compa	inv?
YES NO If no, give name of country		· .
· · · · · · · · · · · · · · · · · · ·		
. Additional explanation on ownership (If needed, use reverse for extra space)	;	
EASE NOTE:		
t variety protection can be afforded only to owners (not licensees) who meet	and of the following arisesis.	
f the rights to the variety are owned by the original breeder, that person must of a country which affords similar protection to nationals of the U.S. for the sa	be a U.S. national, national of a U me genus and species.	POV member country, or national
the rights to the variety are owned by the company which employed the originationals of a LIPOV mombas assured.	inal breeder(s), the company must	be U.S. based, owned by
lationals of a UPOV member country, or owned by nationals of a country white enus and species.	ch affords similar protection to nati	onals of the U.S. for the same
the applicant is an owner who is not the original owner, both the original own	or and the applicant access to	a af af a all ann animair
riginal breeder/owner may be the individual or company who directed final bro finition.	•	
rding to the Paperwork Reduction Act of 1995, no persons are required to re of number. The valid OMB control number for this information collection ction is estimated to average 10 minutes per response, including the time for maintaining the data needed, and completing and reviewing the collection of in-	is 0581-0055. The time requir	
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ile a complaint, write the Secretary of Agriculture, U.S. Department of Agricul 1) 720-1127 (TDD). USDA is an equal employment opportunity employer.	ture, Washington, D.C. 20250, o.	r call 1-800-245-6340 (voice) or

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